



Aminoazole-blocked isocyanate components

Description of Technology: Aminoazole-blocked isocyanate components can be used as self crosslinking binders in heat-curable compositions.

Patent Listing:

1. **US Patent No. 6,586,552**, Issued on July 1, 2003, “Aminoazole-blocked isocyanate components”

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetacgi%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&co1=AND&d=PTXT&cs1=6,586,552.PN.&OS=PN/6,586,552&RS=PN/6,586,552>

Market Potential: Azole-blocked isocyanates, in particular polyisocyanates, are known, as shown in U.S. Pat. Nos. 4,976,837, 5,596,064, 5,889,106, 6,051,675 and EP-A-1 041 097. They may be used as crosslinking agents in thermally curable compositions based on binders with groups comprising active hydrogen, such as in particular binders comprising hydroxyl groups and/or primary and/or secondary amino groups. When heated, they eliminate the azole blocking agent to regenerate free isocyanate groups, which then react by addition with the binder groups comprising active hydrogen and are thus able to effect crosslinking.

Novel blocked isocyanate components have now been found which are thermally self crosslinkable and may be used in thermally self and/or externally crosslinkable compositions.

Benefits:

- Effect crosslinking

Applications:

- Thermally self and/or externally crosslinkable compositions

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